

What is claimed is:

1. A media cartridge, comprising:

a case in which a roll of blank media may be deployed;

5 the case having two halves, hinged together, an area between the two halves, when closed, defining a media supply slot; and

the case having internally and adjacent to the slot, a pair of rollers, at least one of the rollers being a driven roller which is supported at each end, by the case, for rotation by an external motor.

10 2. A media cartridge as claimed in claim 1, wherein:

the two rollers are held in proximity by a resilient bias, one roller on either side of the slot.

3. A media cartridge as claimed in claim 1, wherein:

15 the driven roller has at one end, a fixture for coupling to a driving shaft, the case having an opening which allows access to the fixture.

4. A media cartridge as claimed in claim 2, wherein:

the rollers are held in proximity by a pair of clips;

each roller having a circumferential slot at each end;

20 each clip having two extensions which engage the slots of both rollers at one end.

5. A media cartridge as claimed in claim 4, wherein:

the two extensions of a clip are joined to a clip body, the body having a central opening for receiving and locating a core which fits in the case.

25 6. A media cartridge as claimed in claim 5, wherein:

the clip body has an anti-rotation feature which is adapted to engage with a cooperating feature of a core, to prevent the core from rotating in the case.

7. A media cartridge as claimed in claim 6, further comprising:

30 a core, adapted to cooperate with the clip body by engaging with the anti-rotation feature.

8. A media cartridge as claimed in claim 7, wherein:

the case has at one or both ends, slots for receiving and retaining a clip body.

5 9. A media cartridge as claimed in claim 1, further comprising:

an integral handle at one end of the case.

10. A media cartridge as claimed in claim 1, further comprising:

a folding handle located on a top surface of the case.

10

11. A media cartridge as claimed in claim 1, further comprising:

an integral handle at one end of the case and a folding handle located on a top surface of the case.

12. A media cartridge as claimed in claim 1, wherein:

the case is a molded polymeric case with an integral hinge, held in a closed position by one or more clips.

15

13. A media cartridge as claimed in claim 1, wherein:

the driven roller is longer than the other roller, the other roller being an idler roller which is contained within the case when it is closed.

20 14. A media cartridge as claimed in claim 4, wherein:

the clips are reversible and adapted to be used at either end of the case.

15. A media cartridge as claimed in claim 1, wherein:

the two case halves are formed as a single molding with an integral hinge, the molding having formed in it

25 internal slots for receiving a pair of clips which are used to hold the rollers in proximity.

16. A media cartridge as claimed in claim 1, wherein:

one case half has formed in it a journal at each end for supporting one of the rollers.

30 17. A media cartridge as claimed in claim 1, wherein:

one case half has formed in it a journal at each end for supporting the driven roller.

18. A media cartridge as claimed in claim 1, further comprising:

5 a core which is located in the case, the core having around it, a supply of blank wallpaper media.

19. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which

defines a media path extending from a media cartridge leading area to a winding area; a full width digital

colour printhead located, in the media path such that the media is printed by the printhead at a rate exceeding

10 0.02 square meters per second (775 square feet per hour).

20. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which

defines a media path extending from a media cartridge leading area to a winding area; a full width digital

colour printhead located, in the media path such that the media is printed by the printhead at a rate exceeding

15 0.1 square meters per second (3875 square feet per hour).

21. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which

defines a media path extending from a media cartridge leading area to a winding area; a full width digital

colour printhead located in the media path such that the media is printed by the printhead at a rate exceeding

20 0.2 square meters per second (7750 square feet per hour).

22. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which

defines a media path extending from a media cartridge leading area to a winding area; a full width digital

colour printhead located in the media path and the printhead has more than 7680 nozzles.

25

23. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which

defines a media path extending from a media cartridge leading area to a winding area; a full width digital

colour printhead located in the media path and the printhead has more than 20,000 nozzles.

24. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which defines a media path extending from a media cartridge leading area to a winding area; a full width digital colour printhead located in the media path and the printhead has more than 100,000 nozzles.

5 25. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which defines a media path extending from a media cartridge leading area to a winding area; a full width digital colour printhead located in the media path and the printhead has more than 250,000 nozzles.

26. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which  
10 defines a media path extending from a media cartridge leading area to a winding area; a full width digital colour printhead located in the media path and the printhead prints ink drops with a volume of less than 5 picoliters.

27. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which  
15 defines a media path extending from a media cartridge leading area to a winding area; a full width digital colour printhead located in the media path and the printhead prints ink drops with a volume of less than 3 picoliters

28. A media cartridge as claimed in claim 1 wherein the external motor is mounted within a cabinet which  
20 defines a media path extending from a media cartridge leading area to a winding area; a full width digital colour printhead located in the media path and the printhead prints ink drops with a volume of less than 1.5 picoliters

29. A media cartridge as claimed in claim 1 adapted for use in a self contained printer for producing rolls of  
25 wallpaper, comprising:

a cabinet in which is located a media path which extends from the media cartridge loading area to a winding area;

a full width digital color printhead located in the media path;

a processor which accepts operator inputs which are used to configure the printer for producing a particular  
30 roll; and

the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer.

30. A media cartridge as claimed in claim 1 adapted for use in a wallpaper printer that produces a roll of wallpaper that can be placed in a consumer tote, the tote comprising:

- 5 a disposable exterior in which is formed a main access flap and a pair of core access openings; and  
the tote having an interior in which is located a disposable core which is aligned with the access openings.

31. A media cartridge as claimed in claim 1 adapted for use with a transverse cutter for a printer such as a wallpaper printer, comprising:

- 10 a chassis having end plates;  
the end plates being separated to allow a web of media to pass between them;  
the end plates supporting between them a cutting blade; and  
the blade supported at each end to perform a cutting motion which begins on one side of the web and finishes  
on an opposite side of the web.

15

32. A media cartridge as claimed in claim 1 adapted for use with a slitting mechanism for a printer such as a wallpaper printer, the slitting mechanism comprising:

- a chassis having end plates;  
the end plates being separated by a transverse portion of the chassis to allow a web of media to pass between  
20 them;  
one or more rotating slitting shafts extending between the end plates, each shaft having one or more slitters  
arranged along its length, each slitter having a cutting edge; and  
the slitting mechanism selectively engageable to either enter or not enter a path followed by the web  
according to an input provided by an operator of the printer.

25

33. A media cartridge as claimed in claim 1 adapted for use with a dryer for a printer such as a wallpaper printer, the dryer comprising:

- a compartment with a top opening for receiving a media web fed from the printer;  
a source of heated air located above the top opening for blowing heated air into the opening to dry printing on  
30 the media web.

34. A media cartridge as claimed in claim 1 adapted for use with a printer for producing rolls of wallpaper, comprising:

a cabinet in which is located a media path which extends from a media loading area to a winding area;

5 a printhead located in the media path;

a processor which accepts operator inputs from one or more input devices which are used to configure the printer for producing a particular roll; and

the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer wherein,

10 the length and design of the roll are determined by the operator inputs.

35. A media cartridge as claimed in claim 1 adapted for use in a method for printing wallpaper onto a web of media, comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path which extends from a

15 media loading area to a winding area, there being a printhead located in the media path, a processor which accepts operator inputs from one or more input devices;

using one or more input devices which communicate with the processor to capture data from an operator regarding a specification for an operator's requirements;

using the processor to operatively control the printer according to the data; and

20 printing a single roll of wallpaper, on demand, according to a selected pattern.

36. A media cartridge as claimed in claim 1 adapted for use in a method for operating a wallpaper printing business, comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path which extends from a

25 media loading area to a printhead and from the printhead to a dispensing slot;

using one or more printer input devices which communicate with a processor to capture data regarding one or more customer's requirements;

the data comprising at least a customer selected pattern;

printing a roll of wallpaper, onto a web of blank media, on demand, according to the selected pattern; and

30 charging a customer for the roll.

37. A media cartridge as claimed in claim 1 adapted for use in a method for operating a wallpaper printing franchise, comprising the steps of:

providing to franchisees, an on-demand printer comprising a cabinet in which is located a media path which

5 extends from a media loading area to a printhead and from the printhead to a dispensing slot;

the printer having one or more printer input devices which communicate with a processor to capture data regarding one or more customer requirements, the data comprising at least a customer selected pattern;

providing the franchisee with a collection of patterns in a digital storage medium that can be read by the printer;

10 enabling the franchisee to print a roll of wallpaper, onto a web of blank media, on demand, according to the selected pattern; and

obtaining or attempting to obtain a fee from the franchisee.

38. A media cartridge as claimed in claim 1 adapted for use in a printer for producing rolls of wallpaper,

15 comprising:

a frame in which is located a media path which extends from a media loading area to a winding area;

a printhead located across the media path;

one or more input devices for capturing operator instructions;

a processor which accepts operator inputs which are used to configure the printer for producing a particular  
20 roll; and

the winding area adapted to removably retain a core and wind onto it, wallpaper produced by the printer.

39. A media cartridge as claimed in claim 1 adapted for use in a method for printing wallpaper onto a web of media, comprising the steps of:

25 utilizing an on-demand printer comprising a cabinet in which is located a media path, there being a full width printhead located across the media path, there being a processor which accepts operator inputs from one or more input devices and which controls the printer;

using one or more input devices which communicate with the processor to capture data from an operator regarding a specification;

30 running the printer according to the data;

printing a single roll of wallpaper, on demand, according to a selected pattern and configuration;  
 changing the pattern according to a new datum from an operator; and  
 then printing a new roll onto the same web.

- 5     **40.** A media cartridge as claimed in claim 1 adapted for use in a method for drying a moving web of media in a printer such as a wallpaper printer, the method comprising the steps of:  
       loading the web in a path that traverses a compartment in a dryer within the printer, the compartment having an opening across the top;  
       allowing the moving web to descend into the compartment, as required; and  
 10    blowing heated air from above the opening.

**41.** A media cartridge as claimed in claim 1 adapted for use in a method of supplying a media web to a wallpaper printer, comprising the steps of:

- opening a reusable case;  
 15    placing into the case a core onto which has been located a supply roll of blank wallpaper media;  
       supporting the core for rotation within the case;  
       leading a free edge of the roll between a pair of rollers and past an edge of the open case; then  
       with the rollers located within the case and on either side of the web, closing the case and loading it into a printer.

20

**42.** A media cartridge as claimed in claim 1 adapted for use in a printhead assembly for a printer which prints onto a moving web that follows a path, comprising:

- a full width printhead located across the path;  
       the printhead comprising a color printhead which is at least as wide as the web;  
 25    the printhead being supplied with a number of different inks which are remote from the printhead and which supply the printhead through tubes.

**43.** A media cartridge as claimed in claim 1 adapted for use in a printer for producing rolls of wallpaper, comprising:

- 30    a housing in which is located a media path which extends from a blank media intake to a wallpaper exit slot;



a multi-color roll width removable printhead located in the housing and across the media path;  
 the printhead being supplied by separate ink reservoirs, the reservoirs connected to the printhead by an ink supply harness, there being a disconnect coupling between the reservoirs and the printhead;  
 one or more input devices for capturing operator instructions;

- 5 a processor which accepts operator inputs which are used to configure the printer for producing a particular roll.

44. A media cartridge as claimed in claim 1 adapted for use with a wallpaper printer that produces a roll of wallpaper that can be put in a consumer tote, the tote comprising:

- 10 a disposable exterior in which is formed a main access flap and a pair of core access openings;  
 the tote having an interior in which is located a disposable core which is aligned with the access openings;  
 both openings exposing a moulded coupling, one coupling attached to each end of the core, at least one of the couplings being a driven coupling and adapted to engage a driving spindle that rotates the core.

- 15 45. A media cartridge as claimed in claim 1 adapted for use with a removable printhead assembly for a printer which prints onto a moving web, comprising:

a full width stationary printhead located on a rail along which it slides for service and removal;  
 a number of replaceable ink reservoirs which supply the printhead with different inks;  
 the printhead comprising a color printhead which is at least as wide as the web; and

- 20 the printhead being supplied with the different inks through tubes which can be disconnected so the printhead may be removed.

46. A media cartridge as claimed in claim 1 adapted for use in a self threading printer for producing rolls of wallpaper, comprising:

- 25 a media loading area adapted to support a media cartridge in a position so that a media supply slot of the cartridge is closely adjacent to a pilot guide;

a cabinet housing a media path which extends from the pilot guide to a printed media dispensing slot;  
 a printhead located across the media path;

- 30 a processor which accepts operator inputs which are used to configure the printer for producing a particular roll;

a motor within the cabinet for advancing a media web out of the media cartridge; and  
one or more other motors adapted to urge the media along the path and out of the slot.

47. A media cartridge as claimed in claim 1 adapted for use in a method for producing wallpaper on-demand,

5 comprising the steps of:

utilizing an on-demand printer comprising a cabinet in which is located a media path which passes a printhead  
on the way to a dispensing slot;

selecting a pattern and a configuration;

using one or more printer input devices which communicate with a processor to input the pattern and the

10 configuration; and

printing a roll of wallpaper, onto a web of blank media, on demand, according to the selected pattern and  
configuration.

15

20